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PPP extensions for IP/PPP-HDLC over SONET-SDH/

Ndousse, T.D.   Kumar, S.P.R.
Nat. Inst. of Stand. & Technol., Gaithersburg, MD, USA;

This paper appears in: **Communications, 1999. ICC '99. 1999 IEEE Intern
Conference on**

Abstract:
IP has emerged as the internetworking protocol of choice. IP is a best-effort p
which provides no guarantee of delivery or ordering of packets at their destin.
designed to be transparent to the topology of the underlying transport netwoi
transparency is provided by a framing protocol operating over the data link oi
Due to the popularity of IP, attempts are underway to transport IP traffic ovei
networks such as ADSL, HFC, ATM, **SONET**/SDH, and WDM. This paper exam
dynamics of IP traffic over **SONET**/SDH using **PPP** in **HDLC-like** framing. Alt
ATM framing (IP/ATM/**SONET**) is also presented, the main focus of this paper
IP/**PPP/SONET** and its extensions, such as **PPP** multilink, and **PPP** tunneling
discussion on the applicability of these **PPP** extensions to wavelength division
multiplexing (WDM) networks is also presented in the conclusion

Index Terms:
SONET   asynchronous transfer mode   digital subscriber lines   hybrid fibre coax netwc
internetworking   synchronous digital hierarchy   telecommunication traffic   transport pr
wavelength division multiplexing   ADSL   ATM   ATM framing   **HDLC-like** framing   H
traffic transport   IP/ATM/**SONET**   IP/PPP-HDLC   IP/PPP/**SONET**   MAC layer   PPP
PPP multilink   PPP tunneling protocol   **SONET**-SDH/WDM   **SONET**/SDH   WDM net
browsing   best-effort protocol   data link layer   framing protocol   internetworking proto
transport network   wavelength division multiplexing networks

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